

ABSTRACT OF THE DISCLOSURE

A circuit structure for performing current amplification. The circuit structure may be standardized as a current amplifier cell such that many types of applications requiring current amplification may be created. The basic amplifier cell, which may accept voltage or current sources as an input signal, produces two identical output signals which may be used for feedback or serve as input to additional amplifier stages. This simple structure may be extended to perform current amplification with variable gain or AC or DC voltage-to-current conversion through the use of appropriately selected resistive elements.